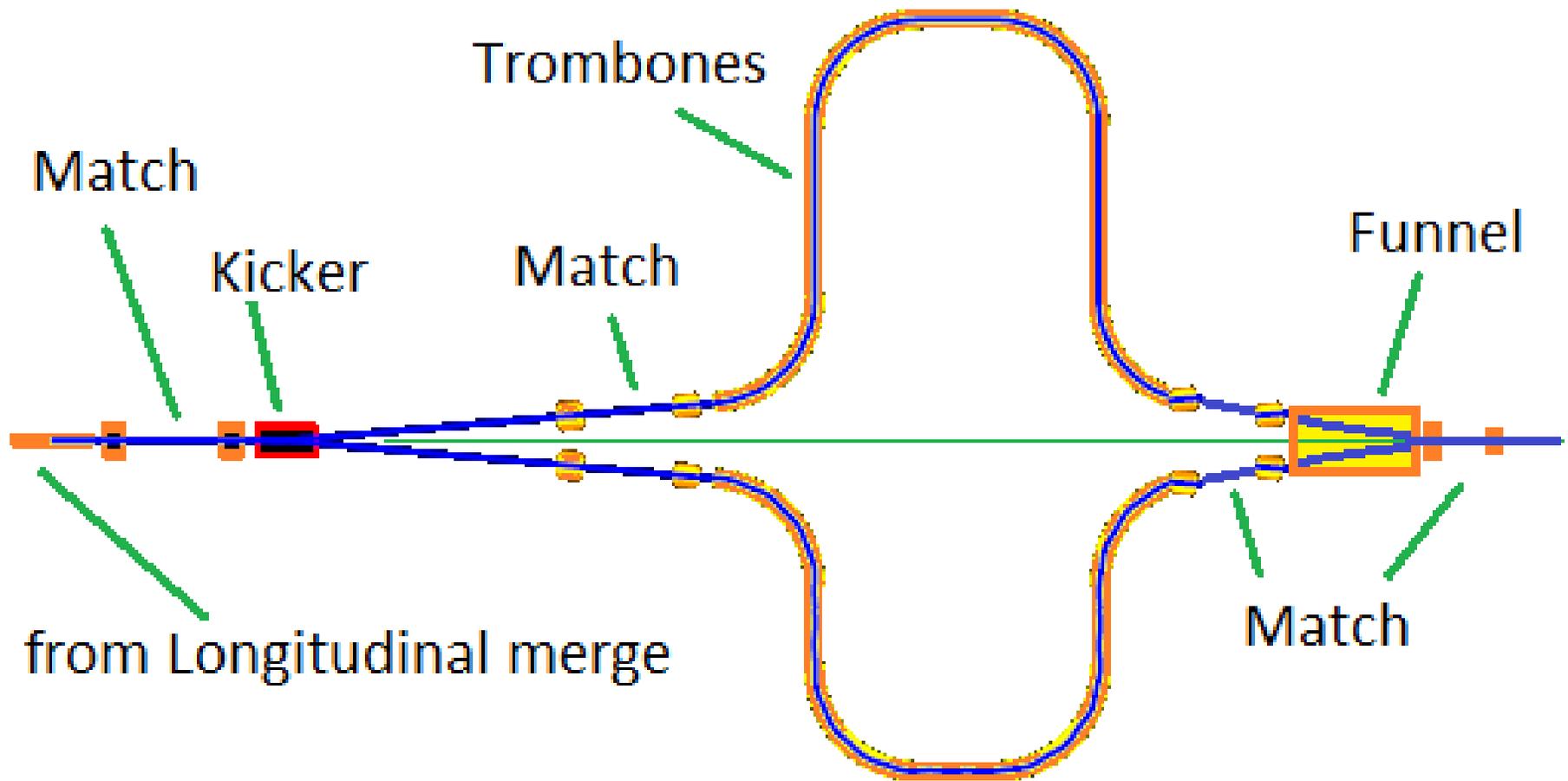


6D Merge

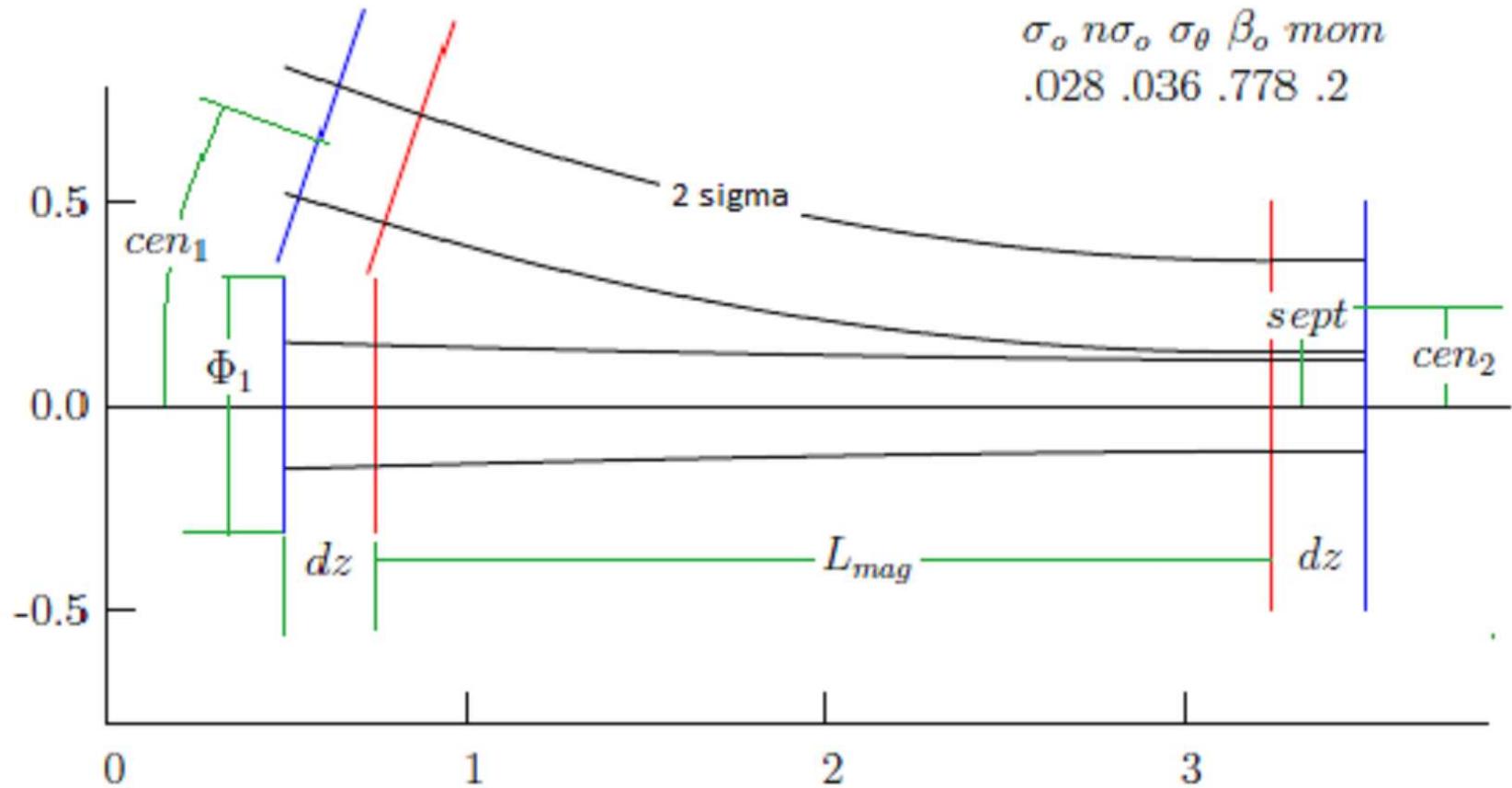
05/1/14

R. B. Palmer (BNL)

Introduction



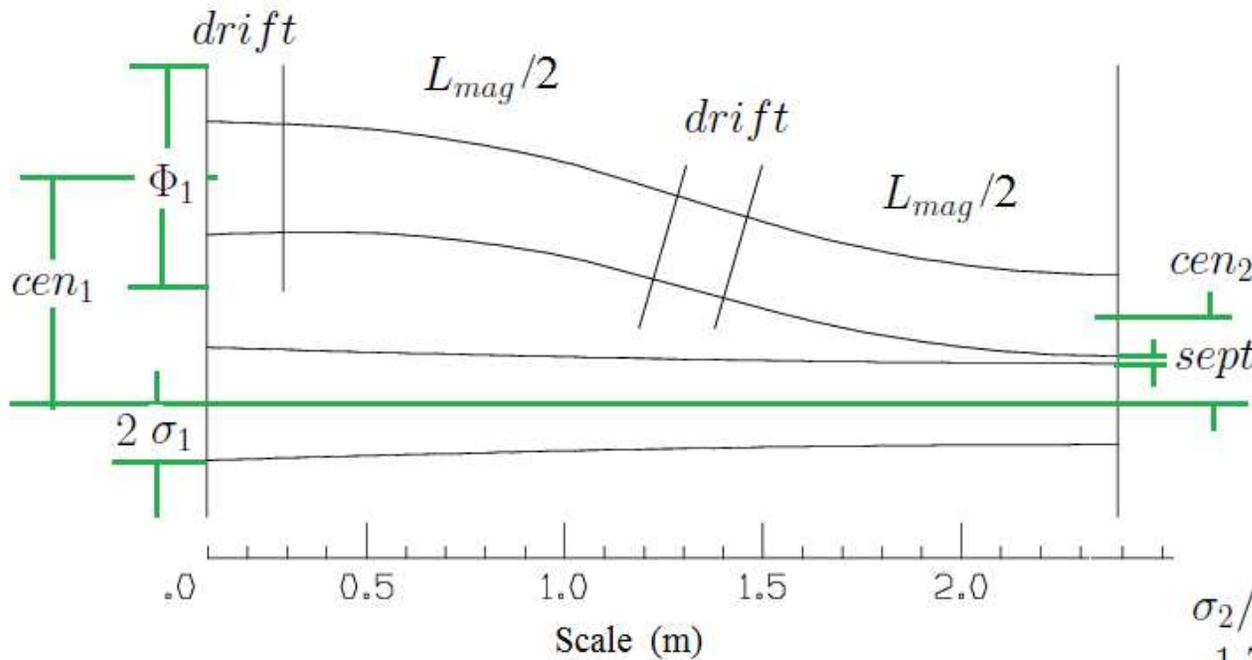
Old Funnel



σ_1 Φ_1 cen_1 θ B
 .0778 .622 .664 16.6 .0725

σ_2/σ_o β_2 Φ_2 $sept$ cen_2 L_{mag} dz
 2 .056 3.11 .224 .02 .244 2.5 .25

New Chicane Funnel



From Bao
 σ_o σ_θ β_o *mom*
 .028 .036 .7777 .212

Start
 σ_1 Φ_1 *cen1*
 0.068 .5446 .5446

End
 σ_2 β_2 Φ_2 *cen2*
 .049 2.38 .392 .2135

Gen
 σ_2/σ_o *sept* L_{mag} *drift* B j A/mm²
 1.75 .0175 1.914 .1914 .2129 9.679

- Field and Current density higher
- But angular dispersion and emittance growth less

x,y at end of funnel

